

May 7, 2010

ICC TECHNOLOGIES, INC.
HARRY BUSSEY
240 BOUNDARY ROAD
MARLBORO NJ 07746

Re: Description: LEACHING SYSTEM, POLYSTYRENE AGGREGATE
Manufacturer: ICC TECHNOLOGIES, INC.
Product Name: ICC FLOW TECH DRAINAGE SYSTEM
Model Number(s): **FTS 123 H-1 OC** (3-12 IN. CYLINDERS WITH PIPE IN CENTER BUNDLE IN 5 FT. OR 10 FT. LENGTHS);
FTS 121 H-1 OC (1-12 IN. CYLINDER WITH PIPE IN 5 FT. OR 10 FT. LENGTHS);
FTS 121 (1-12 IN. CYLINDER CONTAINING AGGREGATE ONLY IN 5 FT. OR 10 FT. LENGTHS); **FTS 061** (1-6 IN. CYLINDER CONTAINING AGGREGATE ONLY IN 5 FT. OR 10 FT. LENGTHS); **FTSG 123 H-1 OC** (3-12 IN. CYLINDERS WITH PIPE IN CENTER BUNDLE, ENCASED IN 2.3 OZ. GEOTEXTILE FABRIC INSTALLED AT 180 DEGREES ON THE UPPER SIDE OF EACH CYLINDER, IN 5 FT. OR 10 FT. LENGTHS);
FTSG 121 H-1 OC (1-12 IN. CYLINDER WITH PIPE, ENCASED IN 2.3 OZ. GEOTEXTILE FABRIC INSTALLED AT 180 DEGREES ON THE UPPER SIDE OF EACH CYLINDER, IN 5 FT. OR 10 FT. LENGTHS);
FTSG 121 (1-12 IN. CYLINDER CONTAINING AGGREGATE ONLY, ENCASED IN 2.3 OZ. GEOTEXTILE FABRIC INSTALLED AT 180 DEGREES ON THE UPPER SIDE, IN 5 FT. OR 10 FT. LENGTHS);
FTSG 061 (1-6 IN. CYLINDER CONTAINING AGGREGATE ONLY, ENCASED IN 2.3 OZ. GEOTEXTILE FABRIC INSTALLED AT 180 DEGREES ON THE UPPER SIDE, IN 5 FT. OR 10 FT. LENGTHS).

EISA FOR FTS 123 H-1 OC AND FTSG 123 H-1 OC IN 5 FT. LENGTHS = 25.0 SQ.FT./PRODUCT; EISA FOR FTS 123 H-1 OC AND FTSG 123 H-1 OC IN 10 FT. LENGTHS = 50.0 SQ.FT./PRODUCT; WIDTH = 36 IN. , HEIGHT = 12 IN. , MAX. DEPTH OF BURY = 8 FT.

[for non-pressurized systems in place of stone aggregate; three 12" bundles with middle bundle having the 4-in. dia. perforated pipe, off-center; bundles in 5 and 10 ft. lengths; FTSG has geotextile fabric pre-installed on the bundle oriented at the top and 6 in. down sides of each bundle]

Product File No: 20100090

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of May 2015.**

This approval is contingent upon compliance with the following stipulation(s):

- This product must be installed in accordance with the manufacturer's printed instructions, product approval, and plan approval. If there is a conflict between the manufacturer's instructions and the product approval and/or plan approval, the product approval and/or plan approval will take precedence.

- When this product is installed in a dispersal cell that is sized based on the EISA rating stated in the regarding block of the product approval letter, this product must receive wastewater having a BOD5 value between 30 and 220 mg/L and a TSS value between 30 and 150 mg/L.
- When this product is installed in a dispersal cell the design of the dispersal cell must allow at least six inches of ponding in the product without backflow of wastewater into the drainpipe that discharges into this product.
- When this product is installed in a dispersal cell that is sized based on the EISA rating stated in the regarding block of the product approval letter, this product must be installed in a dispersal system, which has the top of the dispersal cell at or below original grade.
- This product must have geotextile fabric that meets requirements of s. Comm 84.30 (6) (g), Wis. Adm. Code, installed directly on top of the product and extending down along the sides of the product to a point at least six inches from the bottom of the product.
- EISA means the Equivalent Infiltrative Soil Area per product which is used to size the soil treatment/dispersal cell using soil application rates specified in COMM Table 83.44-1 or Table 83.44-2, Wis. Adm. Code.
- This product may be installed in dispersal cells in place of stone aggregate specified in approved POWTS Component Manuals or Department approved systems. When the distribution cell is not sized based on the EISA rating, the dispersal cell area must be equal to or greater than the area required for stone aggregate.
- This product must be installed with the inlet invert of the distribution cell piping at least 6 inches above the infiltrative surface of the distribution cell.
- This product may be installed at a depth that exceeds the maximum depth stated in the regarding block of this approval, when the manufacturer provides in writing that the proposed installation depth is acceptable for the individual installation.
- When this product is installed with geotextile fabric on the sides of this product in a distribution cell that is sized based on the EISA rating stated in the regarding block of the product approval letter, the geotextile fabric must meet all of the following specifications:
 - . Geotextile shall be non-woven
 - . Weight shall be 0.35 oz/sq yd to 1.5 oz/sq yd
 - . Apparent opening size (AOS) shall be 20-30 U.S. Sieve (ASTM D-4751).
- The following stipulations apply only to the FTSG- series with non-woven geotextile fabric installed at 180 degrees on the upper side of the bundle, pipe in 5 ft. or 10 ft. lengths:
 - . When installing FTSG- series in 5-ft. or 10-ft. lengths, the product must be installed with the geotextile fabric facing upward.
 - . When installing the 3-12 in. bundles, trenches must be excavated no wider than 42 in., with a 36 - 40 in. trench width preferred (although wider excavations may be approved in the design manual).
 - . Geotextile fabric meeting the requirements of s. Comm 84.30 (6) (g), installed directly on top of the product and extending down along the sides of the product to a point at least six inches from the bottom of the product. When installing model FTSG- series, the fabric width shall be at least 5 ft. wide.
 - . When installing the 3-12 in. bundles, bands used in transport must remain intact during installation.
 - . Pipe connectors are necessary for the transition between differing pipe materials (e.g., polyethylene corrugated piping and PVC pipe), meeting s. Comm 84.40, and must be used to assure piping does not separate during construction and backfilling.
- Additional information is included as attachment(s) to this letter; see attachment A, B, C, D and E.

This approval supersedes the approval issued on 12/22/2009 under product file number 20070442.

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This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20070442.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST
Engineering Consultant--Plumbing Product Review
Commerce; Safety & Buildings Div.
PO Box 2658
201 W Washington Ave.
Madison WI 53703-2658
Phone: 608-266-0955; Fax: 608-283-7456
E-mail: Jean.MacCubbin@WI.GOV